

Substitute PTO/SB/RA (04-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1996, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1440A/PTO (Modified)		Complete if Known			
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/616,582		
		Filing Date	02/29/2000		
		First Named Inventor	Buslow, R.		
		Group Art Unit	1632		
		Examiner Name	Li, Q. J.		
Sheet	1	of	2	Attorney Docket Number	A-83708-8/TAL/CYO

**U.S. PATENT DOCUMENTS**

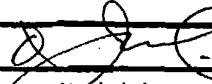
Examiner Initials*	CG# No.	U.S. Patent Document Number-Kind Code <sup>1</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1					
A2					
A3					
A4					
A5					
A6					
A7					
A8					
A9					

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	CG# No.	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
B1						
B2						
B3						
B4						
B5						
B6						

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	CG# No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, song, symposium, catalog, etc.), date, page(s), volume-issue numbers), publisher, city and/or country where published.	T <sup>6</sup>
C1		Evans, C-O et al., "Cloning and sequencing and expression of cDNA for chick liver heme oxygenase: comparison of avian and mammalian cDNAs and deduced protein," <i>Biochem J.</i> 273:639-635 (1989).	
C2		Yoshida, et al., "Human heme oxygenase cDNA and induction of its mRNA by hemein," <i>Eur. J. Biochem.</i> 171:457-461 (1988).	
C3		Ishikawa, K. et al., "Expression of rat heme oxygenase in Escherichia coli as a catalytically active, full length form that binds to bacterial membranes," <i>Eur. J. Biochem.</i> 202:161-165 (1991).	
C4		Schmitt, M.P., "Utilization of Host Iron Sources by Corynebacterium diphtheriae: Identification of a Gene Whose Product is Homologous to Eukaryotic Heme Oxygenases and is Required for Acquisition of Iron from Heme and Hemoglobin," <i>J. Bact.</i> 178(5):838-845 (1997).	
C5		Rotenberg, M.O. et al., "Characterization of a cDNA-Encoding Rabbit Brain Heme Oxygenase-2 and Identification of a Conserved Domain among Mammalian Heme Oxygenase Isozymes: Possible Heme-Binding Site," <i>Archive Biochem. Biophys.</i> 280(2):338-344 (1991).	

Examiner Signature		Date Considered	10/8/03
--------------------	---	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached kinds of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English Language Translation is attached.  
Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. 1120936\_1.DOC

Substitute PTO/BPAIA (09-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for Form 1449A/PTO (Modified)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/518,582
(use as many sheets as necessary)		Filing Date	02/29/2000
		First Named Inventor	Buslow, R.
		Group Art Unit	1632
		Examiner Name	Li, Q. J.
Sheet	2	of	2
		Attorney Docket Number	A-63708-5/TALICYO

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Signature	Doc No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	7
	C8	Wilks, A. et al., "Rat Liver Heme Oxygenase: High Level Expression of a Truncated Soluble Form and Nature of the Meso-Hydroxylating Species," <i>J. Biol. Chem.</i> 268:22357-62 (1993)	
	C7	Schulier, D.J. "Crystal structure of heme oxygenase-1," <i>Nature Struct. Biol.</i> 6(9):850-857 (1999).	
	C8	Omata, Y. et al., "Crystallization and preliminary X-ray diffraction studies on the water soluble form of rat heme-oxygenase-1 in complex with heme," <i>Acta Cryst. D54:1017-1019</i> (1998).	
	C9	Hegazy, K.A. et al., "Functional human heme oxygenase has a neuroprotective effect on adult rat ganglion cells after pressure induced ischemia," <i>Regeneration and Transplantation</i> 11(6):1155-1159 (2000).	
	C10	Atalo, L.G. et al., "Gene Therapy Strategy for Long-Term Myocardial Protection Using Adeno-Associated Virus Mediated Delivery of Heme Oxygenase Gene," <i>Circulation</i> 105:602-607 (2002)	
	C11	Juan, S-H. et al., Adenovirus-Mediated Heme Oxygenase-1 Gene Transfer Inhibits the Development of Atherosclerosis in Apolipoprotein E-Deficient Mice," <i>Circulation</i> 104:1519-1525 (2001).	
	C12	Lee, P.J. et al., "Overexpression of heme oxygenase-1 in human pulmonary epithelial cells results in cell growth arrest and increased resistance to hyperoxia," <i>Proc. Natl. Acad. Sci. USA</i> 93:10363-10368 (1996).	
	C13	Hori, R. et al., "Gene Transfection of H25A Mutant Heme Oxygenase-1 Protects Cells against Hyperoxide-Induced Cytotoxicity," <i>J. Biol. Chem.</i> 277(12):10712-10718 (2002).	
	C14		
	C15		
	C16		
	C17		
	C18		
	C19		
	C20		
	C21		
	C22		
	C23		
	C24		
	C25		
	C26		
	C27		

Examiner Signature	<i>L. J. C.</i>	Date Considered	10/8/03
-----------------------	-----------------	--------------------	---------

**EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Unique citation designation number.** <sup>3</sup> See attached Kind of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 601.04. <sup>4</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.5). <sup>5</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

<sup>3</sup> Applicant is to place a check mark here if English Language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. 1120036\_1.DOC

*IDS 10-1-03*